

Use this website for worksheet:

<http://computer.howstuffworks.com/firewall.htm>

Firewalls

1. Define a firewall:

2. On a computer network firewalls are placed _____. The firewall can also implement _____.

3. A firewall gives a company a lot of _____ over how people use the network.

4. List and describe the three different ways firewalls control network traffic.

Packet filtering –

Proxy service –

Stateful inspection –

5. Explain how firewalls can be customized in the following ways:

IP addresses:

Domain names:

Protocols:

Ports:

Specific words or phrases:

6. Define the following protocols:

IP (Internet Protocol) -

TCP (Transmission Control Protocol) –

HTTP (Hyper Text Transfer Protocol) -

FTP (File Transfer Protocol) -

UDP (User Datagram Protocol) –

ICMP (Internet Control Message Protocol) –

SMTP (Simple Mail Transport Protocol) -

SNMP (Simple Network Management Protocol) –

Telnet –

7. What type of firewall is very secure?

8. Define and explain the eleven different ways someone can violate an unprotected computer as outlined on this website:

Remote login –

Application backdoors –

SMTP session hijacking –

Operating system bugs –

Denial of service –

E-mail bombs –

Macros –

Viruses –

Spam –

Redirect bombs –

Source routing –

9. In addition to firewalls, computer users should install _____ on their system.
10. What is one of the best things about security with a firewall? _____
_____.
11. What function is sometimes combined with a firewall for security?
12. What website does this website recommend you go to, to test your network security? _____